

COMMITTEE HEARING  
BEFORE THE  
CALIFORNIA ENERGY RESOURCES CONSERVATION  
AND DEVELOPMENT COMMISSION

In the Matter of:                    )  
  )  
Preparation of the 2005            ) Docket No.  
Integrated Energy Policy        ) 04-IEP-1D  
Report                                )  
  )  
Committee Hearing on the         )  
California and Western            )  
Electricity Supply Outlook        )  
Report                                )  
  )

CALIFORNIA ENERGY COMMISSION

HEARING ROOM A

1516 NINTH STREET

SACRAMENTO, CALIFORNIA

TUESDAY, JULY 26, 2005

9:05 A.M.

Reported by:  
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1 P R O C E E D I N G S

2 9:05 a.m.

3 PRESIDING MEMBER GEESMAN: This is the  
4 48th day of workshops of the California Energy  
5 Commission Integrated Energy Policy Report  
6 Committee. I am John Geesman, the Commission's  
7 Presiding Member of that Committee.

8 Unfortunately, Commissioner Boyd, the  
9 Associate Member of the Committee, will not be  
10 able to join us today because of a schedule  
11 conflict that requires him to be in Southern  
12 California.

13 To my left is Mike Smith, his staff  
14 advisor. To my right, Melissa Jones, my staff  
15 advisor.

16 The purpose of today's workshop is  
17 review of a staff report and hearing from some of  
18 our regional colleagues on the California and  
19 Western Electricity Supply Outlook Report.

20 Al.

21 MR. ALVARADO: Good morning. My name is  
22 Al Alvarado, I am the Project Manager of the  
23 Electricity Supply Assessments that we are  
24 conducting for this 2005 Energy Report. Today we  
25 are going to provide an overview of the staff

1 report on Statewide and Western Electricity Supply  
2 Outlook.

3 This is a second report accompanying  
4 another report we had a workshop on late June on  
5 the Investor-Owned Utilities Supply Outlook  
6 Report.

7 I would like to introduce Jim Woodward  
8 who is the principle author of this report and  
9 providing an overview and be fielding any of your  
10 questions today.

11 MR. WOODWARD: Thank you, Al. Good  
12 morning to those here and those listening on the  
13 web.

14 I am Jim Woodward, and I am proud to  
15 work for the California Energy Commission in the  
16 Electricity Analysis Office. The next 30 minutes  
17 or so I'll be presenting highlights and sample  
18 findings from the California and Western  
19 Electricity Supply Outlook Report.

20 This staff report had many contributing  
21 authors in the Electricity Analysis Office. Most  
22 of them are here today, and I am hoping they can  
23 help answer the more difficult or leading  
24 questions at the end of this little talk.

25 I would also like to acknowledge the

1 many utility and ESP resource planners who  
2 provided a wealth of data, information, and  
3 insights about their own procurement plans and  
4 contractual relationships.

5 They candidly discussed market  
6 uncertainties involving gas prices, transmission,  
7 renewables, resource adequacy rules, and more.  
8 The uncertainties faced by LSE portfolio managers  
9 and resource planners are detailed in Appendix B  
10 along with some general approaches to prudent risk  
11 management strategies that they employ.

12 This 89-page report with 49 pages of  
13 appendices represents our best professional  
14 judgement. Our best efforts to assess and  
15 describe the information we reviewed, summarized  
16 now for public review and consideration.

17 We have taken unusual pains not to  
18 disclose data that is proprietary or business  
19 sensitive. We are obliged to protect confidential  
20 data included that which has been granted and that  
21 covered by pending appeals.

22 Out of respect for the data we cannot  
23 present or discuss today, I would like to ask for  
24 a moment of silence.

25 (Laughter.)

1           MR. WOODWARD: Thank you. This report  
2 provides a detailed overview of California's  
3 electricity supply trends through the year 2016.  
4 The Energy Commission is required to make  
5 extensive regular assessments of all aspects of  
6 statewide energy demand and supply according to  
7 Public Resources Code Section 25301.

8           The Energy Commission staff has been  
9 asked to identify load trends and understand  
10 resource development trends that taken together  
11 affect the strength and reliability of the state's  
12 electric system.

13           These assessments are one basis for the  
14 Energy Commission's biennial report, which in turn  
15 becomes the foundation for policy recommendations  
16 to the Governor, the Legislature, and other  
17 agencies.

18           This report summarizes four separate  
19 staff assessments into a single document. First,  
20 a five-year outlook of electricity supply and  
21 demand to determine whether California's  
22 electricity system can maintain its required seven  
23 percent operating reserve margin.

24           Second, a review of supply demand  
25 outlooks through 2016 prepared by numerous

1 planning and power marketing organizations in the  
2 western interconnection.

3 This review was aimed to assess the  
4 extent to which electricity surpluses outside  
5 California will continue to be available for  
6 import.

7 Third, the report summarizes the  
8 electricity resource plans submitted by 13  
9 publicly-owned utilities and 5 energy service  
10 providers in California that had peak loads of at  
11 least 200 megawatts in 2003 or 2004. This  
12 statewide summary for all medium and large  
13 electric retailers also includes data submitted by  
14 the state's 3 large investor-owned utilities.

15 Fourth, the report includes a retail  
16 price forecast for California LSEs covering 2006  
17 to 2016.

18 This report, in Chapter 2, provides a  
19 short background on California's electricity  
20 generation and transmission systems, including  
21 recent additions and retirements.

22 In Chapter 4, this report strives to  
23 present a transparent understanding of supply-  
24 adequacy as it relates to procurement capabilities  
25 of publicly owned utilities and energy service



1 providers.

2           Also in Chapter 4, an overview of  
3 customer choice and direct access are presented.  
4 This primer is helpful in providing context for an  
5 industry that has undergone monumental change  
6 after nearly a century of vertically-integrated  
7 stability.

8           Appendix A provides additional details  
9 about California power plant additions and  
10 retirements expected between 2006 and 2008.

11           Appendix B presents summaries of the  
12 Resource Plans submitted by 13 publicly owned  
13 utilities and 5 Energy Service providers. The  
14 Investor-Owned Utility Resource Plan Summary  
15 Report provides lots of detail on IOU Resource  
16 plans, which were publicly presented here at an  
17 Energy Report hearing on June 29.

18           Appendices C, D, and E include tables  
19 that examine California retail price outlook in  
20 more detail.

21           Electricity use varies widely over the  
22 time of day and time of year. For example, the  
23 annual pattern of daily peak demand shows great  
24 spikes during hot summer months. Peak loads on  
25 weekends are much less than on weekdays all year

1 long. This variable load requires a generation  
2 system that is extremely flexible.

3 Our concern for reliability, having  
4 adequate resources to meet demand, is often  
5 focused on just a few hours in the month or year.  
6 This figure shows actual 2004 hourly demand as  
7 reported by CA ISO, sorted from high to low  
8 levels; with the peak hour, hour 1, on the left,  
9 equal to 45,597 MW.

10 Peak electricity demand increases  
11 dramatically in the summer due to air conditioning  
12 loads. Again, this generation system must be  
13 capable of adding or dropping generation from some  
14 facilities to accommodate the wide daily swings in  
15 demand, the high summer peaks, weather  
16 variability, and economic growth cycles.

17 California ability to maintain minimum  
18 required operating reserve margins over the next  
19 five years will be largely determined by its  
20 ability to reduce demand and secure the necessary  
21 resources to meet increased load.

22 Project capacity additions will maintain  
23 adequate reserve margins sufficient to meet load  
24 growth due to population increase and economic  
25 expansion, if existing capacity is maintained.

1           The Energy Action Plan Loading Order has  
2   been established as the preferred method of  
3   securing additional resources, so it is crucial to  
4   understand how LSEs plan to implement the loading  
5   order to meet future customer loads.

6           Nearly two-third of the plants  
7   identified as high risk for retirement are located  
8   in Southern California. The Aging Power Plant  
9   report identified several power plants with a high  
10  risk of retirement if they do not secure contracts  
11  that provide financial incentives for continued  
12  operation.

13           This figure illustrates the impact of  
14  high-risk retirements on SP26, the region that  
15  currently has the smallest percentage of reserve  
16  capacity.

17           If high-risk retirements are not  
18  considered, projected operating reserves in SP26  
19  exceed 7 percent until summer 2009 under hot  
20  temperature, and high forced and planned outage  
21  conditions. This includes planned additions, the  
22  green bars on the chart, that keep up with  
23  forecast load, this black line on the chart.  
24  Forecast load growth steadily increases from 2006  
25  to 2010. this scenario above the line, assumes

1     that plants that are at high risk of retirement  
2     will be maintained, or that their capacity will be  
3     replaced with demand reductions or additional  
4     resources.

5             But if all the plants under the High-  
6     Risk Retirement Scenario do indeed retire,  
7     projected operating reserves could fall below 7  
8     percent during average conditions in 2006, and in  
9     the event of adverse temperature conditions a CA  
10    ISO Stage 3 declaration and rotating outages could  
11    occur.

12            Beyond 2006, if aging power plants  
13    retire and are not replaced, California's  
14    electricity system will not be able to maintain  
15    the required the 7 percent operating reserve  
16    margin during high-demand periods of very hot  
17    weather. Beyond 2005, if aging power plants  
18    retire and are not replaced, most of Southern  
19    California will be unable to maintain this margin  
20    even under normal temperature conditions.

21            In the Supply Outlook Report, Table 2-3  
22    provides a summary of the amount of capacity  
23    considered under the high-risk retirement scenario  
24    and the first year in which it is at risk to  
25    retire. In determining projected operating

1 reserves under both scenarios, several high-  
2 probability generation additions were included  
3 through 2008. A summary of these additions in  
4 included in Table 2-4. Complete listings for both  
5 tables are included in Appendix A.

6 Looking beyond our borders, California  
7 will continue to rely heavily upon imported  
8 electricity from the Southwest and Northwest.  
9 Surplus electricity from the Southwest has been  
10 California's main source of imported power, but  
11 that region's continued fast growth will likely  
12 absorb future surpluses.

13 The Northwest will continue to have a  
14 large surplus of electricity capacity available  
15 for export to California and the Southwest in  
16 summer months. But a portion of this capacity  
17 will be stranded in the Northwest due to  
18 transmission constraints.

19 Two sub-regions within the Western  
20 Interconnection are particularly important to  
21 California: the Pacific Northwest (including  
22 Western Canada), and the Desert Southwest.  
23 Chapter 3 of the Supply Outlook report supplies a  
24 summary of the 2005 Power Supply Assessment done  
25 by the Western Electricity Coordinating Council.

1 We will hear more about that assessment in a few  
2 minutes from our next speaker, Stan Holland.

3 Under the two summer scenarios, both  
4 Western Canada and Northwest sub-regions have  
5 resource surpluses throughout the forecast period,  
6 which for WECC was through 2014.

7 for its winter peaking load, the  
8 Northwest can meet forecast demand under both  
9 current and extreme weather conditions, but may  
10 not meet the 15 percent planning reserve margin  
11 beginning in 2013.

12 In the Southwest, capacity reserve  
13 margins are diminishing due to a recent slowdown  
14 in generation additions, and record levels of load  
15 growth (largely driven by population growth around  
16 Las Vegas and Phoenix).

17 The Desert Southwest might experience a  
18 supply deficiency beginning in summer 2008 due to  
19 extreme hot temperatures-like we had a week ago-  
20 along with continued load growth around Las Vegas  
21 and Phoenix.

22 In this table, we show recent and  
23 proposed generation additions for the four WECC  
24 sub-regions.

25 Capacity additions are characterized as

1 "operational" if they had on-line dates from  
2 spring of 2000 through May 2005. More than 40,000  
3 megawatts of new generating capacity became  
4 operational during that period. Another 9,354 MW  
5 of new capacity additions have either begun site  
6 preparations or are further along in their  
7 construction. Once the plants in this category  
8 are completed and on-line, the WECC region will  
9 have more than 49,000 MW of new capacity since  
10 spring 2000, most of which was installed in the  
11 California-Mexico and Southwest sub-regions.

12 Proposed capacity additions include  
13 power plants in one of four stages of development.  
14 The first would be plants that have received  
15 approval and necessary permits to build and  
16 operate, but have not yet started construction.  
17 Over 12,000 MW are in this category.

18 The next column of Proposed additions  
19 are plants in the regulatory approval and  
20 permitting process. Another 10,000 MW is in this  
21 category. A third category is for plants that  
22 have recently begun the approval process, which  
23 would add another 10,800 MW if they all came to  
24 fruition.

25 Fourth and least certain are additions

1     that have been announced in a press release that  
2     provides project details such as developer,  
3     location, and capacity which altogether would be  
4     another 9,700 MW.

5             The Pacific Northwest currently has  
6     large reserve margins, particularly in the off-  
7     peak summer months. A review of resource plans  
8     filed at regulatory agencies throughout the  
9     Northwest reveals that while the region as a whole  
10    is fully resourced, individual LSEs will need to  
11    acquire some resources during the next decade to  
12    meet their demands, especially during winter peak  
13    seasons. This is primarily due to load growth and  
14    contract expirations during the forecast period.

15            Many Northwest LSEs are contemplating  
16    developing thermal generation and renewable  
17    projects in order to meet their future demand.  
18    This includes company-owned generation in the  
19    resource plans for Idaho Power, Sierra Pacific  
20    Power in Nevada, and the Energy Northwest  
21    Consortium in Washington.

22            This is Figure 3-3 in the Supply Outlook  
23    Report, illustrating proposed incremental new  
24    capacity additions in the region. Projects  
25    included in this figure are in various stages of



1 development, but all have applied for the required  
2 permits.

3           Natural gas-fired power plants, shown  
4 with the green and white diagonal lines, and wind  
5 generation, shown in purple, make up the largest  
6 source of recent, short-term, and mid-term  
7 additions, which coal-fired generation, shown as  
8 green background with white dashes, could  
9 represent the majority of long-term additions  
10 after 2008. A detailed list of proposed projects  
11 is posted on the Energy Commission website.

12           Interestingly, most Northwest LSEs are  
13 continuing with plans to implement energy  
14 efficiency and demand-reduction to programs.  
15 These programs will help Northwest LSEs meet their  
16 winter peak load obligations, and some programs  
17 will reduce energy consumption all year long.  
18 When those programs help reduce summer loads, it  
19 will increase the Northwest region's ability to  
20 export excess energy to California during our peak  
21 demand months.

22           Major utilities in the Southwest plant  
23 to meet load growth through a combination of  
24 generation additions and power contracts. For  
25 example, Nevada Power Company and Public Service

1 Company of New Mexico recently purchased  
2 partially-built power plants named Charles Lenzie  
3 and Luna, to complete construction and serve their  
4 loads.

5 Nevada Power Company recently announced  
6 it would purchase a 75 percent share of the  
7 Silverhawk Facility with 570 MW near Las Vegas.  
8 In Arizona, APS is relying on contracted power to  
9 meet soaring peak demand. APA recently issued a  
10 request for proposals to provide 1,000 MW to meet  
11 peak and energy needs for a minimum of five years  
12 beginning in 2007. Tucson Eclectic Power is  
13 developing the Springerville Unit 3 Power Plant  
14 which is expected to be online in 2006 with 400  
15 MW.

16 This figure again shows incremental  
17 annual capacity additions, dominated by gas-fired  
18 plants with some wind in the first three years,  
19 with more coal-fired plants starting in 2008.

20 This figure should have been labeled the  
21 Southwest and Rocky Mountain sub-regions, and I  
22 regret the error. It is correctly labeled in the  
23 Supply Outlook Report as Figure 3-8.

24 In Colorado, the single largest LSE in  
25 that state, Xcel Energy, is planning to build a

1 750 MW addition to the Comanche coal-fired  
2 facility to meet 20 percent of its forecasted  
3 resource needs. In general, a review of LSE  
4 resource plans suggests that more coal than  
5 natural gas-fired generation will be built in the  
6 future. because of concern about natural gas  
7 supplies and prices.

8 Earlier this year, the Energy Commission  
9 undertook the first detailed examination since  
10 1996 of California's electrify supply resources.  
11 A total of 21 medium and large electricity  
12 retailers were asked to provide forecasts of load  
13 obligations and the generating or contractual  
14 resources used to serve that load.

15 Chapter 5 provides the Energy Commission  
16 staff's review of electricity resource plans filed  
17 by these LSEs. This represents about 97 percent  
18 of the retail load in California.

19 In 2006, the 21 reporting LSEs  
20 collectively expect their non-coincident peak  
21 demand to total approximately 55,800 MW. By 2016,  
22 this peak is expected to rise 7.7 percent to  
23 60,091 MW.

24 A total of 35 small LSEs in California  
25 were exempt from filing resource plans because

1 their peak retail loads in 2003 and 2004 were less  
2 than 200 MW. Altogether, these 35 exempt LSEs had  
3 non-coincident peak retail loads in 2004 totaling  
4 about 1,450 MW.

5 This figure provides a \$30,000-foot  
6 reconnaissance-level snapshot of expected peak  
7 loads in California's retail markets through 2016.  
8 This is a multi-faceted aggregation of many  
9 different assumptions, forecasts, and estimates,  
10 using the annual demand, that is, the net peak  
11 customer demand (hour 1 on the load duration  
12 curve) that each LSE expects to serve during the  
13 next 11 years.

14 The top line shows peak load forecasts  
15 for the three large IOUs and Imperial Irrigation  
16 District. Their resource plans were granted  
17 confidentiality, at least in part, so these four  
18 LSEs have been grouped together to avoid  
19 disclosing business-sensitive data.

20 The net peak demand for each LSE  
21 includes a 15 percent planning reserve margin  
22 except for two Muni's who did not show this  
23 reserve margin in their filings, and except for  
24 LADWP which showed a planning reserve margin of  
25 nearly 20 percent. Roseville did not forecast

1 capacity or energy numbers for 2015 or 2016, which  
2 explains the slight dip for POUs in those years.

3 This figure shows some remarkable  
4 aggregate stability in the collective assumptions  
5 about loads and market shares that each class of  
6 LSE could be called upon to serve. For example,  
7 in 2006, ESPs expect to serve 4.1 percent of the  
8 retail market, based on peak load. In 2016, these  
9 five ESPs as a group estimate their most likely  
10 market share, together, will still amount to 4.1  
11 percent of total peak retail demand.

12 For these same 21 electric retailers,  
13 annual energy consumption is expected to increase  
14 from about 260,200 GWh in 2006 to 282,000 GWh in  
15 2016, an 8 percent increase. Like the capacity  
16 numbers, the energy numbers include transmission  
17 losses, distribution losses, UFE, and station  
18 loads, so they are somewhat higher than expected  
19 retail sales. These numbers do not include firm  
20 sales obligations or expected spot market sales;  
21 nor do the energy numbers include a 15 percent  
22 planning reserve margin.

23 LSE forecasts of steady annual customer  
24 energy demand growth are show here, Figure 5-7 in  
25 the Supply Outlook Report. The three IOUs and IID

1 together will provide 72.2 percent of this energy  
2 supply in 2006, and 71.1 percent in 2016.

3 The other 12 POUs will collectively  
4 supply and deliver 22 percent of this energy total  
5 in 2006, and 23 percent in 2016. The collective  
6 ESP share of these needed energy supplies is 5.9  
7 percent in 2006, and about 5.8 percent in 2016.

8 What may be most remarkable about these  
9 numbers is the shared expectation among portfolio  
10 managers of gradual, modest peak load growth and  
11 continuation of current market shares or energy  
12 delivery among classes of LSE.

13 Again, as a qualification, no one is  
14 ensuring that all forecast loads will be served by  
15 any particular LSE. What the IOUs assume will  
16 depart to direct access, or municipal service, or  
17 community choice aggregators was not necessarily  
18 matched by load growth assumptions as reported by  
19 those LSEs. Each LSE was asked to submit a full  
20 set of electricity supply forms incorporating  
21 their own preferences, assessments, strategies,  
22 and judgments. This included a request to the  
23 IOUs to use their own assumptions about departing  
24 load, energy efficiency, and renewable energy  
25 procurement. This is the data that was

1 aggregated to provide this common understanding of  
2 statewide trends.

3 By 2016, about 25,000 MW of generic new  
4 supply resources will be needed to serve total  
5 peak requirements, including retail loads, a 15  
6 percent planning reserve margin, and firm sales  
7 requirements. This includes power to replace  
8 expiring supply contracts and capacity to replace  
9 retiring plants.

10 The three IOUs will have the most need  
11 for generic resource additions, as show here,  
12 Figure 5-4 in the Supply Outlook Report.

13 These numbers are for dependable  
14 capacity all types, and they are cumulative over  
15 time. CPUC procurement proceedings have already  
16 authorized IOUs to fill much of this generic  
17 capacity need for the early years in the forecast  
18 period.

19 A couple of Muni's listed a LM 6000  
20 plant or two on their long-term horizon, listed  
21 this as planned resources, which some might call a  
22 "generic resource addition" but we did not  
23 unilaterally amend or correct the resource plan  
24 filing data for any aggregation.

25 This figure, number 5-5 in the Supply

1 Outlook Report, shows the aggregate LSE estimates,  
2 collectively and cumulatively, of renewable and  
3 non-renewable generic resources reported in the 21  
4 resource plans.

5           These are dependable capacity estimates,  
6 which may be significantly less than installed or  
7 nameplate ratings for new renewables. For  
8 example, LADWP has plans to bring the Pine Tree  
9 Wind project online in 2006. It has a nameplate  
10 rating of 120 MW, but the dependable capacity  
11 rating, for now, is 0 MW.

12           This figure, number 5-10 in the Supply  
13 Outlook Report, shows one primary procurement  
14 source of renewable energy that is not owned by  
15 utilities; bilateral contracts. These do not  
16 include renewable energy that some utilities  
17 expect to purchase on a short-term or spot market  
18 basis, or include renewable energy credits that  
19 might be purchased.

20           Annual data for the first three years in  
21 the forecast period are not included to avoid  
22 disclosing confidential data. For the IOUs,  
23 renewable contract supplies are based on their  
24 preferred case (PG&E) or their Alternative Cases  
25 (SCE and SDG&E respectively).



1           These cases assume an obligation that 20  
2   percent of their retail energy sales will be  
3   supplied by eligible renewable energy resources by  
4   2017. For Edison, this target will be achieved  
5   before 2009, which is reflected in a nearly  
6   constant forecast level to maintain this  
7   percentage through 2016, the end of the forecast  
8   period on the chart.

9           And now for a few highlights from the  
10   fourth and last assessment in the Supply Outlook  
11   Report. In this outlook, staff provides estimates  
12   of typical retail electricity rates, given  
13   projected energy prices, utility plans and  
14   programs, and regulatory decisions. The  
15   projection uses a set of assumptions that staff  
16   believes are probable and realistic. Staff uses  
17   the best available information including public  
18   knowledge and confidential data from the LSEs.

19           Retail customers of the state's  
20   investor-owned utilities can expect electricity  
21   rates to remain nearly constant from 2006 through  
22   2016, and their rates will remain substantially  
23   higher than those in other western states.

24           For IOU customers, retail rates will  
25   continue to be higher than those paid by customers

1 of the state's publicly owned utilities.

2 The generation portion of the retail  
3 electricity price amounts to at least 50 percent  
4 for most retail customers. For larger IOU  
5 customers, generation cost is higher than 50  
6 percent of total costs. This trend will continue  
7 through the end of the outlook period.

8 The generation cost component for ESPs  
9 is expected to remain flat in the range of 5.4 to  
10 5.9 cents per kilowatt-hour.

11 Charges for transmission, distribution,  
12 various surcharges, and all other non-generation  
13 charges add at least 5.3 cents per kilowatt-hour,  
14 and as much as 8.5 cents. All coinage is nominal.  
15 Details are presented in Table 6-3 of the report,  
16 and in Appendix E.

17 If current price trends continue, the  
18 differences in rates between California's  
19 investor-owned and publicly owned utilities will  
20 diminish over time.

21 The IOUs and most of the municipal  
22 utilities project stable electricity prices  
23 through the outlook period.

24 I would like to conclude by briefly  
25 presenting three figures drawn from Table 6-2 in

1 the Supply Outlook Report. These 3 figures show  
2 the weighted average electricity prices for  
3 residential, commercial, and industrial customer  
4 of IOU and municipal utilities through 2016. For  
5 residential customers, the gap between IOU and POU  
6 customers clearly narrows over time, with a  
7 noticeable decline in IOU rates through 2008 at  
8 the beginning of the forecast period, and a slight  
9 rise in POU rates over the whole forecast period.

10 Rates for IOU customers include the cost  
11 of generation, transmission, distribution, public  
12 purpose programs, competition transition  
13 charge(CTC), nuclear decommissioning, Department  
14 of Water Resources (DWR) contract costs and bond  
15 financing, and other miscellaneous charges.

16 Although not generally listed in the  
17 bills, rates for municipal utility customers  
18 include similar costs, except that municipal  
19 utilities do not have DWR contracts, DWR bond  
20 financing, or competition transition charge costs.

21 Commercial customers can expect to see  
22 stable retail rates around 14 cents per kilowatt-  
23 hour among the IOU commercial customers. Their  
24 municipal counterparts can expect to pay, on  
25 average, about 4 cents per kilowatt-hour less.

1           For industrial customers, the difference  
2   between IOU and POU retail rates is up to 3.0  
3   cents per kilowatt-hour in the early years. This  
4   gap narrows to 2.0 cents in 2014. consolidated  
5   retail prices for IOU and municipal utilities are  
6   listed in Appendix D.

7           All interested parties are encouraged to  
8   contribute comments in writing, and the Committee  
9   requests comments be submitted by August 5, 2005.  
10   Public comments and corrections to this staff  
11   report are welcomed, but we do not plan to publish  
12   another final version. This is it, we hope. If  
13   you are submitting comments to our Docket Office,  
14   please be sure to identify as pertaining to Docket  
15   04-IEP-1D.

16           California's electricity system is  
17   physically interconnected with many local entities  
18   and embedded within a very large western  
19   interconnection. This report presents a detailed  
20   overview of electricity supply trends in  
21   California and the Western Electricity  
22   Coordinating Council region through the year 2016.

23           In the big picture, the goal of this and  
24   other Energy commission reports is to help in  
25   managing the growth of California's electricity

1 supplies in a way that balances the interests of  
2 consumers, energy providers, the environment, and  
3 others with a stake in these outcomes.

4 Thank you.

5 PRESIDING MEMBER GEESMAN: Any questions  
6 from the audience for Jim? Steven.

7 MR. KELLY: Thanks, Jim, that was a very  
8 interesting presentation and transparent by the  
9 way.

10 PRESIDING MEMBER GEESMAN: You need to  
11 introduce yourself, Steve.

12 MR. KELLY: Steven Kelly with IEP. I  
13 have a couple of questions. On the graphs that  
14 show proposed generation in the Southwest, there  
15 was a pretty large chunk for coal. It looks about  
16 50 percent, is that IGCC or is that just straight  
17 traditional coal that is expected to come on line  
18 for that?

19 MR. WOODWARD: For that question, I  
20 would like introduce Richard Jensen from our  
21 office.

22 MR. JENSEN: Commissioner, advisors,  
23 guests, Richard Jensen, Electricity Analysis  
24 Office. Forgive me if I am a little nervous, I  
25 haven't been in front of a live microphone in a

1 while, since my brother's wedding several years  
2 ago, and hopefully I will fair better today.

3 IGCC I know of one project, the Mustang  
4 Project in New Mexico that actually has received  
5 some federal funding, a grant, looking into the  
6 development of that project, but the majority of  
7 the Southwest coal development would be pulverized  
8 coal.

9 MR. KELLY: Jim or to staff I guess, on  
10 the graph that shows key findings from the  
11 California Load Serving Entity Resource Plan  
12 filings, you show in 2006 non-coincident peak  
13 demand at 55,800 MWs increase to 60,091 MWs by  
14 2016 over the course of ten years, which is about  
15 if my math is correct, about a 4,000 MW increase  
16 over that period of time over ten years.

17 As I recall during the late to mid 90's,  
18 we were increasing load 1,500 MWs I think even in  
19 PG&E's service territory during that kind of boom,  
20 economic boom period of that period.

21 This strikes me as a relatively low  
22 number for a period as long as ten years in terms  
23 of growth. I as wondering what's driving that?  
24 Is it that we are going to have demand reduction,  
25 or is it just the economic growth is going to be

1 moderate during this ten-year period? Does  
2 anybody --

3 MR. WOODWARD: The demand drivers for  
4 many of the filings are detailed in Appendix B4  
5 for some of the utilities in Southern California  
6 municipal utilities. They are seeing a built out  
7 service territory and only seeing very modest one  
8 to two percent annual demand growth.

9 MR. KELLY: Okay, I apologize, I haven't  
10 had the time to pour over the appendices. What is  
11 leading to what I view as relatively moderate low  
12 public growth over ten years is just a fairly  
13 consistent expectation amongst the load serving  
14 entities that demand is going to be relatively  
15 flat during this period. Is that what is going on  
16 here?

17 MR. WOODWARD: Yes.

18 PRESIDING MEMBER GEESMAN: I would  
19 emphasize, Steven, that this is a compilation of  
20 the filings that were received. I don't believe  
21 the staff is claiming authorship of the  
22 projection. I think Jim may have misspoke when he  
23 said one to two percent a year. I think  
24 arithmetic would suggest growth below one percent  
25 a year. I think in most financial analyses, you

1 would probably go back over your recorded historic  
2 data and see if there is any ten-year sequence  
3 during that recorded period that would match the  
4 project for growth going forward.

5 I am not certain, at least in the 30  
6 years that I know about, you could find any  
7 similar ten-year period of relatively no growth.

8 MR. KELLY: My math showed that over the  
9 ten-year period, there is about an eight percent  
10 growth rate, and I think on the energy side, too,  
11 the chart when I did the quick math in my head, it  
12 comes out to be about an eight percent growth rate  
13 over ten years, which struck me as relatively or  
14 historically low.

15 PRESIDING MEMBER GEESMAN: Which may  
16 provide some insight into the quality of  
17 submittals that we actually received.

18 MR. KELLY: That's right. I haven't  
19 poured through the report.

20 MR. JASKE: Mike Jaske, Energy  
21 Commission staff. Another dimension is simply the  
22 nature of the submittal process. As you indicated  
23 yourself earlier, Commissioner Geesman, this is a  
24 compilation, and there can be mismatches between  
25 the expectations of the IOUs about direct access



1 and the ESPs about direct access that our process  
2 hasn't found a way in which to accommodate that  
3 mismatch. This is just a jamming together the  
4 sort of long staple approach as we used to talk  
5 about in WCSS of everyone's individual view. Only  
6 when you get something like the staff forecast  
7 where there is an attempt to be consistent and  
8 throughout and have the same methodology would you  
9 have something that is more like a reasonable view  
10 of the future.

11 MR. KELLY: I understand that, and I  
12 understand the problems that we have on this.

13 That gets me to kind of my next comment,  
14 and this deals with the slide that talks about  
15 market share findings. I don't have these  
16 numbers, but it showed up on page 10 of the  
17 handout.

18 The first bullet said that the IOUs are  
19 expected to lose one percent of customer loads to  
20 publicly-owned utilities by 2016. The second  
21 bullet says the ESPs which I am not sure if those  
22 include the POUs or not expect to maintain a 6  
23 percent market share through 2016.

24 If the IOUs are expecting to lose one  
25 percent of customer loads to some entity, and the

1     ESPs are going to maintain their market share.

2     Are we losing load someplace?

3             PRESIDING MEMBER GEESMAN:  Again, as  
4     Mike pointed out, this is a compilation.  There is  
5     no required consistency between assumptions.

6             MR. KELLY:  Okay.

7             PRESIDING MEMBER GEESMAN:  It is an  
8     interesting insight into the self-recording  
9     process.

10            MR. KELLY:  Correct.  I don't know when  
11     the staff is going to or if they are going to put  
12     their visors on and give us the staff's outlook on  
13     this stuff which would be helpful I think at this  
14     point, but it seems to me that we might be losing  
15     some share there.  I think the energy service  
16     providers are reporting a market share number  
17     which is going to fluctuate as the gross amount of  
18     demand moves over time, and the IOUs may be  
19     reporting just -- I am not sure if the 1 percent  
20     is a reduction off where they stand today, or is a  
21     1 percent reduction off of the growth expectations  
22     that are going to occur over the ten-year period.  
23     Does anybody have an answer to know that?

24            MR. WOODWARD:  The 1 percent reduction  
25     in market share adding up -- first we start with a

1 21 filings adding up to 100 percent of what they  
2 forecast in 2006 for the net peak demand for their  
3 retail customers.

4 That relative share declines by roughly  
5 1.1 percent for the three IOUs from 2006 to 2016.

6 MR. KELLY: That 1 percent is a market  
7 share?

8 MR. WOODWARD: And is picked up by --  
9 yes.

10 MR. KELLY: Okay, and where is it going  
11 then?

12 MR. WOODWARD: To the publicly-owned  
13 utilities.

14 MR. KELLY: Would that rightfully be  
15 another bullet here then because they are not  
16 included in the ESP bullet?

17 MR. JASKE: There is an element that is  
18 completely missing from our process, so it is not  
19 only difference of opinion among the fixed set of  
20 load serving entities, there is a class of load  
21 serving entity which has not contributed anything  
22 into this process, which is community choice  
23 aggregation. To the extent that the IOUs project  
24 loss of load to community choice aggregation,  
25 there are no community choice aggregators that are

1 regulations required to submit anything, and so  
2 there is an actual amount of existing load which  
3 is sort of falling off the table from the  
4 perspective of the plans that all the existing  
5 load serving entities have turned in.

6 That is documented to a very limited  
7 degree in the staff paper of June 29 that was the  
8 aggregation of the IOU and all the LSEs into the  
9 planning area. You can kind of detect there's  
10 adjustments to load, but because of the  
11 confidentiality problems, they can't all be  
12 spelled out precisely how that works out.

13 MR. KELLY: Under the second bullet  
14 there, Energy Service Providers, that includes  
15 what I will call the Muni's and the ESPs that are  
16 registered at the PUC?

17 MR. WOODWARD: We did have that  
18 (indiscernible) a couple of times -- I remember  
19 one junior staff were assigned a complete resource  
20 plan and got the lines two and three on the forms  
21 and said how do I fill that out as an ESP. I said  
22 you are not an ESP, you are a Muni. I said, yeah,  
23 it is in our mission statement, we provide energy.

24 Well, ESPs as we've defined it here,  
25 five companies are energy service providers, not

1 publicly-owned utilities.

2 MR. KELLY: This graph, just so I am  
3 understanding what it is, this graph actually is  
4 missing the CCA assumptions and it is missing the  
5 muni stuff.

6 MR. WOODWARD: No, municipal utilities  
7 gave us the forecast of their load growth, but  
8 they were not required to forecast an offset and  
9 match up load reductions that the IOUs may have  
10 assumed. They are independent assumptions. In  
11 fact, the resource plan filings are an aggregation  
12 of hundreds and hundreds of decisions and  
13 assessments, calculations, estimates,  
14 probabilities, and so on.

15 MR. KELLY: I appreciate the difficulty  
16 you guys at staff are trying to meld this, so,  
17 don't get me wrong here. Unless that load is  
18 leaving the state, it seems to me that there is a  
19 hole here, and I understand that it will take us  
20 probably years to figure this out, but it seems to  
21 me there is a statistical hole about a certain  
22 amount of load that is not being represented --

23 MR. JASKE: Again, it is not being  
24 represented within the resource plans that the  
25 existing load serving entities turned in. The

1 load is represented in the staff forecast that was  
2 prepared independent of those LSE submittals, and  
3 there will be a supplemental staff filing on load  
4 forecasts in the early part of September that will  
5 address some of the uncertainties that we are  
6 talking about during the demand forecasting  
7 portion of these workshops.

8 MR. KELLY: To the extent that the  
9 Energy Commission is going to influence PUC  
10 procurement process, is it going to be the staff  
11 document that is transmitted over the PUC, or is  
12 it this document because --

13 PRESIDING MEMBER GEESMAN: Neither.

14 MR. KELLY: It will be the Commission  
15 approved document --

16 PRESIDING MEMBER GEESMAN: Approved by  
17 the Commission that will draw from the very rich  
18 evidentiary record that we have been able to  
19 develop in 48 days of workshops.

20 MR. KELLY: Got it, okay. I look  
21 forward to seeing how we make sure we've covered  
22 all of the holes here. Thank you.

23 PRESIDING MEMBER GEESMAN: Thank you,  
24 Steven. Other questions from the audience for  
25 Jim.

1 (No response.)

2 PRESIDING MEMBER GEESMAN: Great, let's  
3 go on then to our next speaker.

4 MS. JONES: I have one quick question,  
5 Jim. When you talked about the generic resource  
6 additions and for renewable, you mentioned that  
7 LADWP's project included zero dependable capacity.  
8 What was the range of dependable capacity for some  
9 of the other utilities? Was zero what all the  
10 utilities assumed, or was there some higher  
11 amount?

12 MR. WOODWARD: I don't recall in  
13 particular. For wind resources?

14 MS. JONES: Yes.

15 MR. WOODWARD: I don't recall that.

16 MS. JONES: Okay, thank you.

17 MR. WOODWARD: Any other comments, if  
18 not, it is my pleasure to introduce our next  
19 speaker, Mr. Stan Holland, Staff Engineer with the  
20 Western Electricity Coordinating Council.

21 MR. HOLLAND: Good morning, Commission,  
22 CEC staff, and guests. It is my pleasure to fill  
23 in for my boss today. The assessment that we did  
24 is actually still in draft form. It will be  
25 discussed at our board meeting this week, and most

1 likely will be approved at that meeting.

2 The assessment had many people help with  
3 putting it together. We have Reliability  
4 Subcommittee that oversees the assessment, and we  
5 had a lot of help including from the CEC staff,  
6 Grace Anderson, Mike Jaske gave us good comments  
7 that we used.

8 The assessment like I said is a draft  
9 assessment still, and it is on our website if you  
10 want to see the whole thing.

11 In my presentation today, I am going to  
12 be using slides that were put together by John  
13 Ieland, the chair of the Reliability Subcommittee.  
14 Then I will add some more details regarding  
15 California input data and then more details  
16 regarding California results from the assessment.

17 As many of you may know, the Supply  
18 Adequacy Model which is called SAM for short, was  
19 developed by the CEC staff and was given to WECC  
20 to use. Beginning the year 2001, we did our first  
21 assessment, we have been doing them every year  
22 since then. We used the deterministic mode of the  
23 model and also we will do problemistic as we point  
24 out later in this, we don't have the data to do  
25 more than a deterministic mode of the model.



1           The assessment evaluates physical  
2   ability of the interconnections to supply all load  
3   regardless of contractual obligations.

4           This means that we take all the loads,  
5   all the resources, and the transmission, and we  
6   let the model do its think. It computes a power  
7   supply margin, not a reserve margin.

8           These formulas here, they show the  
9   difference. If you were going to calculate your  
10   reserve margin, you would take the resources and  
11   the imports and you subtract the exports and the  
12   load.

13          If you have a target reserve margin, you  
14   put that in on the other side of the equation, and  
15   then you are going to get your surplus and  
16   deficiency.

17          You will see that the SAM calculation is  
18   similar to the second one where it calculates the  
19   surplus or deficiency with a reserve margin as an  
20   input.

21          The SAM model also calculates the  
22   imports and exports in order to try to meet the  
23   load requirement in each area.

24          This topology diagram shows the zones or  
25   bubbles that we divide the western interconnection

1 up into for SAM to do its analysis.

2 The color coding, later you will see  
3 that post color codings are also how we aggregate  
4 the results for our report.

5 The data that we use for our assessment  
6 is supplied by WECC members. Each control area  
7 supplies us with their loads and resource data  
8 which includes 10 years of monthly load forecast  
9 data, existing generation capacities for both  
10 summer and winter, near-term generation additions  
11 and retirements, again, with the capacity  
12 information that we need, and this generation  
13 outage forecast, including schedule maintenance  
14 and forced outages for the current year.

15 We also ask our members to help us by  
16 giving us the zone to zone transmission transfer  
17 capability forecast. That means that if they know  
18 of upgrades or downgrades, that they will tell us  
19 which ones are highly likely, and we use those to  
20 feed the model.

21 The other thing that we started asking  
22 for recently is the sensitivity of their loads to  
23 temperature fluctuations. We use that in one of  
24 the scenarios that we will be talking about in a  
25 minute.

1           The data then is organized into zones,  
2   and each zone is assigned its load and resource  
3   and transfer capabilities, and then we apply the  
4   outages and the assumed reserve margin, and we  
5   export that into SAM, and SAM calculates the  
6   imports and exports at the zone level, and our  
7   assessment then is given a sub-region level to  
8   maintain confidentiality. I know that is a sore  
9   point, we are trying to get through that, and that  
10  might change eventually.

11           MR. SMITH: Mr. Holland?

12           MR. HOLLAND: Yes?

13           MR. SMITH: Quick question on the  
14  Southern California/Mexico area going back to your  
15  map. The data, do you have separate data -- is  
16  data broken out between Southern California and  
17  Mexico --

18           MR. HOLLAND: Yes, it is.

19           MR. SMITH: -- Northern Baja -- so, you  
20  have data for Northern Baja specifically?

21           MR. HOLLAND: Yes, for the area in  
22  Mexico that is in the WECC region, we get it from  
23  them.

24           MR. SMITH: Do you know the source of  
25  that data, who and what organization in Mexico

1 generates that?

2 MR. HOLLAND: CFE.

3 MR. SMITH: CFE.

4 MR. HOLLAND: (Indiscernible).

5 MR. SMITH: Is that under some  
6 confidentiality protection, or is that available?

7 MR. HOLLAND: I don't think it is as  
8 much so as other places because in our reports  
9 that we published with the loads and resources, we  
10 have a California only, and then we have  
11 California/Mexico, so you could just do a  
12 subtraction and get the Mexico are portion of  
13 that.

14 Going from these zones to the sub-region  
15 level aggregation, this shows which zones are in a  
16 sub-region. Note that Northern California is made  
17 up of four zones, Southern California/Mexico is  
18 also made up of four zones.

19 This year we ran six scenarios, and  
20 there was a major change in how we came up with  
21 our reserve margin assumptions. Our Board asked  
22 us to reinstitute a criteria that was abandoned in  
23 1999 called the Power Supply Design Criteria, so  
24 temporarily we are using that again to come up  
25 with an assumed reserve level.

1           You will see scenarios one and two are  
2   summer, and July is the peak the interconnection  
3   as a whole, so we use the July. Between Zone 1  
4   and 2, the difference is that we apply a  
5   temperature deviation to try to get an extreme  
6   case.

7           Then Zone 3 and 4 are winter, which have  
8   no (indiscernible) for the South. Then 5 and 6  
9   were thrown at the request of the Reliability Sub-  
10   Committee where we just take a straight 15 percent  
11   planning margin, and use that as the assumed  
12   reserve level.

13          Level 6 we then add the uncommitted  
14   generation. For those of you who haven't seen the  
15   report, committed generation is generation that is  
16   under active construction. Uncommitted generation  
17   that has been reported but is not underactive  
18   construction.

19          Some more about this power supply design  
20   criteria, there is three criteria, and it was  
21   recommended when this was in effect for each  
22   control area to meet one of these criteria. For  
23   this assessment, we assumed that the smaller  
24   criteria one or two must be met. Criteria 3 we  
25   have not analyzed at this point, it is more of a

1     problemistic study that might be forth coming as  
2     we get more tools.

3             The largest risk we looked at was only  
4     generation. We didn't look at transmission, and  
5     there are bottle necks that could influence the  
6     results. Also, reserve sharing group benefits  
7     were not captured in this analysis.

8             An example of how this works is given  
9     here. You will see if you look under Zone 1 and  
10    go across, the Criteria 1 you can have 1a or 1b,  
11    and it is the greater of those. Then since they  
12    only have to meet the lesser of the criteria, then  
13    you take the greatest of 1a and 1b and the lesser  
14    of that versus Scenario 2. Most often, Criteria  
15    1b and Criteria 2 are applicable to the zones in  
16    the study. Criteria 1a was never a factor.

17            Based on taking each zone and  
18    calculating the design criteria that would be  
19    applicable. You will see at the aggregate level  
20    what reserve margin was used in those scenarios.  
21    So, for Southern California/Mexico, it is around  
22    11 percent. For WECC over all, it is around 11  
23    percent.

24            Those were used for Scenario's 1 through  
25    4, except the winter was used for the winter

1 cases. Then the Scenario's 5 and 6, the 15  
2 percent planning margin was assumed. Here are the  
3 summer results, this shows the year's first  
4 deficit, and the deficit zone ratio which is the  
5 ratio of the number of zones in the sub-region  
6 that are deficit compared to the total number of  
7 zones in the sub-region.

8 A deficit condition means that the sum  
9 of the power supply margins or the zones in the  
10 sub-region was negative. John Leland when he took  
11 our assessment and made these slides, he put  
12 colors into the results which makes it very easy  
13 to see how the results are good or bad.

14 The red is bad, the blue is good, the  
15 yellow is good, zero (indiscernible) margin means  
16 that the reserve requirement was meant. It just  
17 also means that there are likely transfers  
18 involved, and the model, both import more than is  
19 necessary to meet the requirement, so zero would  
20 be the answer in that case.

21 If we look at the example here of  
22 Southern California and Mexico sub-region, you  
23 will see that it goes deficit in the year 2009.  
24 The ratio we show here -- so you can look under  
25 Scenario 1, the bottom row there, 2009, Southern

1 California/Mexico goes deficit, but only one out  
2 of the four zones is really deficit. The others  
3 are actually still importing and able to meet  
4 their load requirements.

5 Throughout the assessment, we have  
6 several disclaimers, one of which is although we  
7 know the load requirements as forecast by the  
8 control areas out for ten years, it is not known  
9 what kind of resource additions or retirements  
10 will occur during those ten years.

11 We may know for two or three years.  
12 After that, nobody knows. At that point, the  
13 studies all shift from a determination of supply  
14 margin to a determination of future needs. Again,  
15 if you look on the table here under Southern  
16 California, if we take the results of this report  
17 in the year 2010, we would need 2,300 MWs of more  
18 generation.

19 This slide compares Scenario 1 and  
20 Scenario 2 where we increased the load requirement  
21 to account for a five degree increase in  
22 temperature. So, you will see that for Southern  
23 California, it has shifted by one year whenever  
24 they become deficit.

25 This next slide shows the results of SAM



1 No. 5 with the assumed 15 percent planning margin,  
2 and, again, Southern California/Mexico 2008 is  
3 when it goes deficit.

4 Then this compares Scenario 5 and 6  
5 where we throw in the uncommitted generation which  
6 I don't think we show how much that is, but in the  
7 report it does show the generation that is added  
8 because of including that.

9 In this case, it goes the other way  
10 where it goes from 2008 for Southern California to  
11 2009, about 46 isn't hardly enough to worry about,  
12 so it goes two years.

13 Then this compares Scenario 1 and  
14 Scenario 5. The conclusions that John published  
15 in his report where there is a capacity surplus in  
16 the Northwest. There is load growth obviously in  
17 the Southwest outpaces the known development of  
18 known new generation resources.

19 One thing that is discussed heavily in  
20 the report is that there are transmission  
21 constraints that are produced as this capacity  
22 surplus in the Northwest can no longer get to the  
23 South. There is a cut-plane along the Northwest  
24 and north of Idaho. We call that the North-South  
25 Split, and so all the paths between the North and

1 South are constrained at maximum levels.

2 Also based on all the scenarios, the  
3 assumed reserve margins for the summer are met  
4 until the year 2008. Then again, for winter, we  
5 have the same kind of results.

6 Then going forward to some more of the  
7 results just for California, this shows the  
8 transfer capabilities that were used and these  
9 values are derated from the OTC ratings based on  
10 limits that may originally be expected to apply  
11 under simultaneous high seasonal loading  
12 conditions.

13 What that means is that we formed a task  
14 force, and they looked at the flows that they see  
15 during the high seasonal summer peaks and came up  
16 with these ratings.

17 In 2007, the Palo Verde to Southern  
18 California limits are projected to be increased by  
19 a 30 percent due to the addition of upgrades such  
20 as capacitors and such. Then the 2009, the Palo  
21 Verde and Southern California Limits are also  
22 increased by the addition of the Devers 2 line.  
23 Those were both accounted for in the assessment.

24 This gives kind of a picture of the  
25 California results. The first line is the firm

1 demand, the second line is non-firm demand, so we  
2 take those, then we assume a reserve margin, add  
3 them together to get a load requirement, and you  
4 will see Northern and Southern California there  
5 and then we throw in the generation resources, and  
6 this is Scenario 5 without the uncommitted  
7 additions, so those are zero. Then we have  
8 outages and derates, which are described in the  
9 report.

10           Some of these are hydro derates, and  
11 there might be a few MWs of scheduled maintenance,  
12 but not very much. Then the next line we have net  
13 imports, so that is imports minus exports of  
14 assigned as positive for imports.

15           We add those together to get the  
16 available resources, and then the power supply  
17 margin is simply the available resources minus the  
18 load requirement.

19           One thing that I didn't mention earlier.  
20 On the bottom line there, we show in 2005 and 2006  
21 and 2007, we show a positive power supply margin  
22 for Southern California and Mexico. This  
23 represents resources in Mexico that are higher  
24 than their load, but cannot be exported based on  
25 our assumption on the import capability. Southern

1 California by itself would just be zero for those  
2 three years.

3 This compares the SAM net imports to the  
4 import capability for Northern California. You  
5 will see what this really means that during the  
6 early years, (indiscernible) was imported in  
7 Northern California wasn't needed in Northern  
8 California so it was exported out of that region.  
9 As the load increased in Northern California, more  
10 of that was imported stays in Northern California.

11 The reason it didn't get the maximum at  
12 the end there is that between -- if you remember  
13 the picture of the zones, Northern California is  
14 made up of Central California, Northern  
15 California, SMUD in San Francisco. Between  
16 Central California and Northern California on Path  
17 15, that has a limit, so there's an internal limit  
18 to this sub-region that prevents it from going to  
19 the maximum there.

20 Southern California, likewise, this is  
21 net imports versus the import capability. You  
22 will see that it increases in 2007, it increases  
23 in 2009 because of the Palo Verde paths. You will  
24 see that in 2006, the net imports go down because  
25 of the retirement of the Mojave and then back up

1 again in the next year because of new generation  
2 that is being built throughout the Southwest. It  
3 goes down and stabilizes because of the joint  
4 plans that we have in the model.

5 This is a different view of the results.  
6 Northern California because it is through-cut from  
7 the Northwest to the Southwest going down the  
8 (indiscernible) line is at zero until such time  
9 that the North/South split occurs in 2010 it looks  
10 like.

11 In Southern California, again, the  
12 positive numbers are the Mexico plants that are  
13 stranded. Then it goes down. In both of these,  
14 pretty much the slope of the lines is caused by  
15 what we have been reported, the load growth that  
16 has been reported, so they are fairly straight  
17 because we don't know about new generation out  
18 there, then the generation levels off and then all  
19 of that can affect the model then. At that point  
20 is the load growths. That is the end.

21 PRESIDING MEMBER GEESMAN: Thank you  
22 very much, Mr. Holland, and thank you for being  
23 here today. Are there questions from the audience  
24 for Mr. Holland? Steven.

25 MR. KELLY: Thank you, Steven Kelly with

1 IEP again. One quick question. The 1 and 2  
2 Scenario I understand. The other scenario is a +5  
3 degrees temperature reading. Is that equivalent  
4 to a 1 and 10 or a 1 in -- do you know?

5 MR. HOLLAND: No. I mean I think that  
6 in the report that was discussed previously  
7 pointed out that some points that we are not in  
8 agreement with the CEC or the CAL ISO's  
9 assessments. Part of that is because of the 1 and  
10 10 versus what we just call a 5 degree. The other  
11 reason is the assumptions on imports.

12 The model, of course, it is going to let  
13 the energy flow wherever it is needed.

14 MR. KELLY: Does the Energy Commission  
15 staff roughly what that translates into, a five  
16 percent increase in temperature?

17 PRESIDING MEMBER GEESMAN: It wasn't a  
18 five percent increase, it was a 5 degree --

19 MR. KELLY: Excuse me, 5 degree  
20 temperature increase. Is that roughly a 1 and 10  
21 because that is the way we usually frame it here,  
22 and I was just kind of trying to --

23 MR. JASKE: The main difference is not  
24 so much in the translation of the degrees into a  
25 load impacts of 1 and 10. That is not too far off

1 in the materials from the March 21 workshop on  
2 2005's supply and demand balance I think sort of  
3 show what our analysis of 1 and 10 means.

4 I think the results that Stan is talking  
5 about has more to do with the number of entities  
6 that actually reported this temperature  
7 sensitivity factor, and, therefore, their ability  
8 to bump up all load by 5 degrees. They only got  
9 about I think half the utilities to respond to  
10 their request for this new piece of information  
11 that hasn't historically been asked for. So, they  
12 are sort of still in the transition stage of being  
13 able to implement that enhanced capability.

14 MR. KELLY: In California, Mike, if the  
15 degrees were to increase five percent over  
16 historical average, would that be roughly for  
17 California a 1 in 10 your extreme scenario?

18 MR. JASKE: You are in the right  
19 ballpark. You might not be in the left  
20 field/right field, but you are in the right  
21 ballpark.

22 MR. KELLY: All right, thank you.

23 PRESIDING MEMBER GEESMAN: Other  
24 questions for Mr. Holland?

25 MS. DOWNEY: Carrie Downey with Horton,

1 Knox, Carter & Foote for the Imperial Irrigation  
2 District. On the slide that you had put the  
3 verbiage at the bottom that suggested that the  
4 power supply margin from Southern  
5 California/Mexico 2005/2007 represented the  
6 stranded surplus of CFE. When you show the switch  
7 from 2007 to 2008, all of the sudden we go from  
8 surplus to a negative 873. I'm trying to figure  
9 out are you showing that it is no longer stranded,  
10 that it is somehow now getting into California at  
11 that point? Is it because of transmission which I  
12 know the report will come in two days, or is it  
13 additional so that actually if you could never get  
14 that 225 anyway, you would actually have a deficit  
15 now of over 1,000?

16 MR. HOLLAND: No, that's the load growth  
17 in Mexico.

18 MS. DOWNEY: Then what is stranded now  
19 will be staying in Mexico?

20 MR. HOLLAND: Yes. That is an issue  
21 that we hope to address before next year's  
22 assessment where we can better model that path  
23 between Mexico and California because right now we  
24 have the generation that was built in Mexico is  
25 owned by California. We actually have that up in



1 California in this model, and it is easier for the  
2 model to work if you put it where it really is.

3 MS. DOWNEY: Thank you.

4 MR. BROWN: Good morning, Andy Brown  
5 with Ellison, Schneider & Harris. Thank you, you  
6 just answered one of my questions with respect to  
7 the stranded generation down in Mexico.

8 I'm looking forward to looking at the  
9 details in the report, but I am wondering is there  
10 a breakout in the details of the report that would  
11 identify what is stranded down there in terms of  
12 generation to Mexico?

13 MR. HOLLAND: You mean an amount, like  
14 MW amount?

15 MR. BROWN: Yeah, or highlighting that  
16 issue more specifically.

17 MR. HOLLAND: I don't think necessarily.  
18 The results just show that is there and when we  
19 first saw that, we looked to see what was causing  
20 that because we knew they were importing into  
21 California, and we saw that it was generation in  
22 Mexico.

23 MR. BROWN: My other question relates to  
24 when you were going through the colored tables,  
25 and there was one I think it was for Southern

1 California where it flipped to -46, and we were  
2 looking at it going red at -46, but you  
3 essentially were saying that wasn't too material.  
4 You sort of treat it like zero, and I am wondering  
5 where is the -- is the rounding a plus and minus  
6 thing? What kind of number would you essentially  
7 push things to zero at?

8 MR. HOLLAND: We reported that they came  
9 out, but there is a lot of assumptions made, we  
10 have a lot of disclaimers in the report. I don't  
11 know what number it would be, but I think until  
12 you see between 100 and 200, that you might want  
13 to round down.

14 MR. BROWN: Okay, thank you.

15 PRESIDING MEMBER GEESMAN: Other  
16 questions for Mr. Holland? Mike.

17 MR. JASKE: Stan, on the two bar graphs  
18 near the end that show the net imports,  
19 particularly the Southern California one, this is  
20 a question of interpretation? The bar for 2009 I  
21 believe is the point that you indicated that the  
22 increased capacity from Deever Palo Verde 2 comes  
23 into operation. So, I think that is why the bar  
24 goes up, but the actual use, it just happens to go  
25 down, so it would seem to suggest that for at

1     least reliability purposes, that line isn't used  
2     for that purpose. It may have other benefits, but  
3     it is not needed from a liability perspective. Is  
4     that the right interpretation of this graph?

5             MR. HOLLAND: It all depends on how much  
6     generation gets built in the Palo Verde area. If  
7     there is not more generation built there, then  
8     more of the generation what we needed for Arizona  
9     and New Mexico.

10            MR. JASKE: It sounds as though for it  
11     to provide reliability benefits to California it  
12     has to be an increase in available generation to  
13     go along with the increase transfer capability so  
14     that you actually get more imports into Southern  
15     California?

16            MR. HOLLAND: That is the unknown  
17     factor.

18            MR. JASKE: All right. Okay, thank you.

19            PRESIDING MEMBER GEESMAN: Okay, why  
20     don't we go to our gentleman from BPA who I think  
21     is going to address us by telephone. Good  
22     morning.

23            MR. MAINZER: Good morning, this is  
24     Elliot Mainzer, I am the Acting Vice President of  
25     Bulk Marketing and Transmission Services. I am

1 also joined here this morning with Steve Oliver,  
2 who is our VP of Generation Supply, and Karen  
3 Connelly, who is our Manager of Regional  
4 Coordination.

5 I appreciate the opportunity to comment  
6 this morning on the Western Electricity Supply  
7 Outlook Report. I wish we could be there in  
8 person to join you, but I had a little bit of  
9 short lead time on this. We did have an  
10 opportunity, however, to review Chapter 3 of the  
11 Supply Outlook Report. We had it reviewed  
12 internally by BPA Operations and Marketing staff  
13 and by several technical staff at the Power  
14 Council.

15 Overall, we felt that the findings of  
16 the report were consistent with our general view  
17 of load resource balance and new resource  
18 development in the region. As you know, exports  
19 to California from our part of the world are  
20 largely a function of the amount of hydro power in  
21 the Columbia River Basin and other Northwest  
22 (indiscernible).

23 If you look back to 1990, the  
24 correlation between your exports to California and  
25 flows on the Columbia River at the Dows, Oregon is

1     about 80 percent. In the absence of sustained  
2     drought or the loss of substantial generating  
3     capacity, we believe that surplus Northwest power  
4     should continue to be available for export to  
5     California over the interties at levels reasonable  
6     consistent with historical practice.

7             I did assemble a number of minor edits  
8     and potential suggested clarifications on a report  
9     that I will forward to Commission staff is that is  
10    valuable. I also wanted to mention one quick  
11    technical point. With respect to the Scenario  
12    Analysis 1 in Chapter 3 concerning the ability of  
13    the Northwest to meet various load levels in the  
14    reserve margin, there were a few technical  
15    questions on the part of counsel staff about the  
16    (indiscernible) of these numbers that are best  
17    resolved off line I imagine. I don't think they  
18    were concerns with the essential findings, just  
19    several questions on methodology and  
20    comparability.

21            Since the counsel staff and others  
22    typically address this question using loss of load  
23    probability models with explicit assumptions about  
24    hydro system capability, so it might be useful  
25    following today's session to arrange for maybe a

1 little bit of follow up with a few of the  
2 technical staff who worked on the report and a  
3 couple of the people at the Power Council.

4 What I wanted to do was provide a bit  
5 more context and color regarding some of the key  
6 Northwest policy issues that will shape resource  
7 development and potentially exports to California  
8 over the next decade. The report did allude to a  
9 few of these, and I wanted to provide a little  
10 more context.

11 The first issue is known as the regional  
12 dialogue on the future role of BPA in regional  
13 power supply. BPA is currently engaged with the  
14 region in a substantial debate about the future  
15 role of Bonneville in meeting the incremental load  
16 growth of our customers in the post 2011 period  
17 when our current power contracts expire.

18 We are actually proposing a tiered rates  
19 construct in which BPA will limit its sales of  
20 power at its lowest cost base rates to the firm  
21 capability of the federal hydro system, which is  
22 currently estimated at around 7,300 MWs.

23 Under this construct, customers will  
24 have the option of meeting their incremental load  
25 growth through other suppliers by placing their

1 load on BPA, but paying a market-based rate for  
2 their incremental demand. This tiered rates  
3 construct is designed to clarify responsibility  
4 for meeting load growth and to send marginal price  
5 signals for the next round of resource development  
6 in the Northwest. BPA expects to come out with a  
7 final proposal for this new approach in early  
8 2006.

9 One point of clarification that I wanted  
10 to offer that seemed to be a bit unclear in the  
11 report concerned the role of Bonneville with  
12 respect to resource development. Since 1980, BPA  
13 has been with the signing of the Northwest Power  
14 Act, BPA has not been authorized to build new  
15 generating facilities. We are only allowed to  
16 purchase the output of new generation to meet  
17 customer load.

18 We anticipate that a substantial number  
19 of our full requirement customers will purchase  
20 their incremental or Tier 2 power from us in the  
21 future so we will likely continue to be in the  
22 power purchase business for the foreseeable  
23 future.

24 Since we will be limiting our sales of  
25 cost-base power to the firm capability of the

1 system, we will continue to have surplus power to  
2 export to other regional markets under most water  
3 conditions.

4 I did want to make it just clear that  
5 Bonneville probably will not be getting completely  
6 out of the power purchase environment,  
7 particularly if our smaller full requirements  
8 customers continue to stay with us in the future.

9 I next wanted to talk about the SLICE  
10 System products. Beginning in 2002, Bonneville  
11 began marketing 22.8 percent of the federal hydro  
12 system output under a SLICE system product.

13 Under SLICE, Bonneville's SLICE  
14 customers purchased a fixed percentage of federal  
15 hydro system energy and capacity and have various  
16 storage rights and flexibility for the attempt to  
17 mirror the rights available to BPA.

18 Bonneville still has overall operational  
19 control of the system and SLICE must not interfere  
20 with meeting any of the critical non-power  
21 constraints on the system. As a result of  
22 offering the SLICE product, 22 percent of the  
23 system's surplus energy is now marketed by SLICE  
24 customers. Examples include Seattle City Light,  
25 Eugene Water and Electric Board, and some of other



1 larger somewhat more sophisticated power marketing  
2 customers.

3 The SLICE product has been the subject  
4 of some controversy here in the Northwest, and we  
5 are currently evaluating the product and its  
6 future as a part of our broader regional dialogue  
7 discussion. SLICE is important to California  
8 because it does have a major impact on how the  
9 region markets surplus power, and depending on how  
10 we move forward with SLICE, the number of  
11 counterparties that trades with California could  
12 increase or decrease, potentially raising credit  
13 issues and creating a wider number of decision  
14 makers affecting the level of exports to  
15 California.

16 Generally, however, SLICE customers have  
17 and I would say are expected to market their power  
18 economically so if price signals are there for  
19 exports to California, surplus power will likely  
20 find its way there.

21 One other point I wanted to make,  
22 however, is that over time, SLICE customers may  
23 choose to use increasing amounts of their surplus  
24 SLICE power to meet their incremental load growth  
25 which could erode the amount of surplus available

1 for exports to California. This is something that  
2 probably merits a little bit of additional  
3 research.

4 The next one I want to talk about is the  
5 direct service industry. As many of you are  
6 probably aware, the power crisis was quite  
7 devastating to the Northwest aluminum industry,  
8 which has been one of the sort of economic  
9 mainstays of the Northwest for about 50 years.

10 Smelter loads are actually down from  
11 3,000 MWs since 2000 to only 300 MWs at present.  
12 EPA recently announced a decision to offer 577 MWs  
13 of financial benefits to the DSI for the 2007 to  
14 2011 period in an attempt to help conserve jobs in  
15 the region, but alumina and aluminum prices may  
16 conspire to further reduce DSI operations.

17 The level of DSI operations has obvious  
18 implications for the amount of surplus power  
19 available to market to California.

20 I also wanted to mention renewables and  
21 renewable facilitation. Bonneville has had  
22 considerable interest from a number of wind  
23 developers up here in the Northwest hoping to  
24 market their power to California to help meet  
25 demand spurred by the State's portfolio standard.

1           At BPA, we are prepared to offer wind  
2   integration services to these developers using the  
3   flexibility of the hydro system to help them  
4   manage the intermittent nature of their power, but  
5   limited firm transmission rights across the  
6   interties has prevented any deals from going  
7   forward so far.

8           There is obviously a substantial wind  
9   resource here in the Northwest that represents a  
10   substantial potential source of supply to  
11   California, but I do imagine we will need to build  
12   additional transmission to accommodate such  
13   transfers or get a lot more comfortable about the  
14   use of non-firm transmission to make that happen.

15          The second to the last point I wanted to  
16   talk about is resource adequacy. Like you in  
17   California, BPA is also grappling with this issue,  
18   and we are working with the WECC, NERC, the Power  
19   Council, our public power customers, and the  
20   regions investor-owned utilities to actually  
21   define a resource adequacy metric and the standard  
22   for the Northwest. This is obviously a very  
23   important region-wide issue.

24          There are many Northwest staff working  
25   diligently with other regional entities to

1 determine the extent to which inter regional  
2 transfers, particularly imports to the Northwest  
3 from California can actually be depended on to  
4 meet winter peaking load for the Northwest.

5 It is likely that BPA will continue to  
6 plan to a critical firm standard if we adopt a  
7 resource adequacy standard which will result in  
8 on-going presence of considerable surplus power  
9 under most water conditions for export to  
10 California. Resource adequacy, of course, is a  
11 topic which is getting more and more important  
12 here in the Northwest.

13 Finally, all of this activity, of  
14 course, is juxtaposed against wider debate over  
15 the future of grid west, sort of the RTOish like  
16 conversation that is happening here in the  
17 Northwest.

18 Like many parts of the country, the  
19 Northwest is very much in search of a better  
20 approach of transition planning, congestion  
21 management, and reliability. We are expecting  
22 some major developments on this front in October,  
23 with a pending decision on whether to move forward  
24 with the next stage of grid west or to pursue  
25 other options such as the transmission

1 improvements group, or possibly bi-lateral REGIS  
2 (indiscernible) arrangements to help mitigate and  
3 manage congestion issues.

4 From the perspective of California, of  
5 course, a more efficient Northwest grid will help  
6 maintain if not increase the amount of power  
7 available for export to California. Those are  
8 several of the big policy issues.

9 I now just want to pass it over to Steve  
10 Oliver who is going to talk a little bit about  
11 some of the recent biological opinion issues that  
12 have been turning here in the Northwest.

13 MR. OLIVER: Thanks, Elliot. I don't  
14 have a lot to add. I would just say that in 2004,  
15 Northwest federal agencies produced a plan to  
16 operate the river and of course with the  
17 Endangered Species Act for purposes of mitigating  
18 impacts and dangers to salmon species.

19 That plan was challenged by various  
20 parties as insufficient to meet a new jeopardy  
21 operation for the endangered species with regard  
22 to both flow and bypass. The court subsequently  
23 ordered increased spill on the Lower Snake Project  
24 (indiscernible) Dam, and beginning June 20, for  
25 the Lower Snakes and July 1 McNarry through

1 August, the spill requirement basically derates  
2 Northwest hydro system by 1,500 MWs of capacity  
3 over that period and about 450 average MWs of  
4 energy.

5 Basically the court-ordered spill is  
6 being appealed, and it is not clear whether this  
7 will becoming norm for future operations or not.  
8 This is something that needs (indiscernible).

9 That is really all I have on one of the  
10 more recent events happening on the system.

11 PRESIDING MEMBER GEESMAN: Steve, is the  
12 order itself just for the one year?

13 MR. OLIVER: Yes.

14 PRESIDING MEMBER GEESMAN: Okay.

15 MR. MAINZER: There is definitely a big  
16 variable here. That is all we have to offer in  
17 terms of prepared remarks.

18 PRESIDING MEMBER GEESMAN: I want to  
19 thank you all very much for joining us today. Are  
20 there any questions from the audience for Mr.  
21 Mainzer or Mr. Oliver?

22 MR. ALVARADO: This is Al Alvarado with  
23 Energy Commission staff. I just wanted to also  
24 thank you Steve and Elliot for participating in  
25 this hearing, and we will follow up with a

1 discussion with you later on to discuss some of  
2 the technical issues and any corrections that are  
3 needed to our report. Thank you.

4 MR. MAINZER: Thank you.

5 MR. OLIVER: Okay, I'll look forward to  
6 talking to you.

7 MR. ALVARADO: Sure thing.

8 PRESIDING MEMBER GEESMAN: Is there any  
9 additional comment that any members of the  
10 audience would care to share with us?

11 MR. KAKUK: Good morning, my name is  
12 Janos Kakuk, and I am in the Resource Planning  
13 Group at Southern California Edison. I have some  
14 general comments on the report.

15 First, I would compliment the staff on  
16 the preparation of the report. This report we  
17 believe serves an important function by providing  
18 an integrated statewide outlook of the expected  
19 demand supply forecast over the next five years.  
20 We also believe that the CEC provides unique at  
21 looking statewide supply generally.

22 This report also might have the  
23 developers to see where and when new resources  
24 will be needed.

25 There is one area where we have some

1 slight disagreement or we missed some further  
2 analysis. The reports states that beyond 2006, if  
3 aging power plants want to be replaced, the  
4 required 7 percent operating reserve matching will  
5 not be met in very hot weather.

6           The first assessment we find only two  
7 scenarios, the base case with no retirements and  
8 the high retirement case. Another scenario which  
9 would lie between the two cases might be maybe  
10 more appropriate, we believe so. The reason is  
11 because the scenario, the base case scenario  
12 showed no need for new resources through 2010.  
13 The high retirement scenario showed needs as soon  
14 as 2006.

15           We believe that both cases ignore some  
16 important assumptions. For example, the case, the  
17 high retirement case did not take into  
18 consideration the availability of existing a new  
19 demand response programs in the forecast of the  
20 expected supply of that (indiscernible).

21           Another point is that the report does  
22 not take into consideration nor even mentions the  
23 California ISO approved serious capacitor upgrade  
24 to DPV 1. There is a high likelihood that DPV 2  
25 will be completed in later of the year of the



1 study.

2 PRESIDING MEMBER GEESMAN: Do you have a  
3 specific year in mind for DPV 2?

4 MR. KAKUK: Depending on the application  
5 as soon as 2009.

6 The highest retirements scenario seems  
7 to be conservative considering also the most  
8 recent California ISO local area reliability  
9 assessment, which shows need for over 8,500 MW of  
10 local generation. In order to meet this local  
11 area reliability requirements, some of the power  
12 plants indicated that is high probability for  
13 their retirement need to keep in the line.

14 Finally --

15 PRESIDING MEMBER GEESMAN: Do you  
16 envision, and I'm not familiar with that ISO  
17 report, but do you envision that prompting greater  
18 reliance on RMR contracts?

19 MR. KAKUK: For some other structure  
20 needed, but these power plants need to be kept on  
21 line.

22 Finally, to meet the RPS standard, we  
23 need also procure more and build renewable  
24 resource plans. So, generally, we agree as  
25 indicated in the WECC analysis that some shortages

1 might occur as soon as 2008, but we just simply  
2 don't feel the need to over estimate their  
3 potential shortages.

4           However, even we discover it, SC agrees  
5 that in the remainder of the (indiscernible), they  
6 will be increasing resource need, and in the  
7 regulatory and the market uncertainties we are  
8 facing, it is difficult to see how this new  
9 generation will be built. That is why we took our  
10 initiative and launched our long-term RFO. We  
11 believe that other load serving entities should  
12 follow our example and to also meet their portion.

13           Thank you very much.

14           PRESIDING MEMBER GEESMAN: Thank you.  
15 Other comments from members of the audience?

16           MR. BROWN: Andy Brown, Ellison,  
17 Schneider, and Harris. I was asked to relay some  
18 brief comments by Duke Energy North America.

19           Duke would like to point out on page 20,  
20 a paragraph there that they really applaud the  
21 staff for including in the report, and I will read  
22 it because it is pretty brief. "Resource adequacy  
23 in California through 2010 will be influenced to a  
24 large extent by the continued operation of power  
25 plants at risk for retiring due to lack of

1 financial incentives. If these plants are retired  
2 and their capacity is not replaced by alternative  
3 resources, California will not be able to maintain  
4 minimum required operating reserve margins beyond  
5 2006 during period of very hot temperatures, and  
6 the California ISO Southern Region will fall below  
7 minimum required operating reserves in 2006 during  
8 normal temperature conditions."

9 This is an issue, particularly with  
10 respect to the existing resources, like some of  
11 Duke's assets, that the company has been trying to  
12 highlight for a number of years. They've been  
13 promoting what they are calling an interim or  
14 bridging contract to insure that existing capacity  
15 remains available to the system while either plant  
16 modernizations or other capacity additions are to  
17 occur.

18 We really wanted to applaud the  
19 Commission, the staff, for highlighting this  
20 argument. We think it is very critical in these  
21 coming years, and the company will be making some  
22 brief reply comments to that effect. Thank you.

23 PRESIDING MEMBER GEESMAN: Thank you.

24 Other comments?

25 MS. DOWNEY: Carrie Downey again for the

1 Imperial Irrigation District. We just wanted to  
2 add our accolades on the great work done by Jim  
3 Woodward and the staff in compiling the data for  
4 IID, since obviously submitting information that  
5 we consider either confidential or not yet  
6 approved was tricky. I just want to commend Jim  
7 and the entire staff in the department for making  
8 it easy, and I think getting information that you  
9 will be finding helpful. Thank you.

10 PRESIDING MEMBER GEESMAN: Other  
11 comments?

12 (No response.)

13 PRESIDING MEMBER GEESMAN: Okay, I want  
14 to thank you all very much. We will be adjourned.

15 (Whereupon, at 10:52 a.m., the Committee  
16 meeting was adjourned.)

17 --oOo--

## CERTIFICATE OF REPORTER

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